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TITLE: Film-forming composition and film formation

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AB Film-forming compns. polymerizable with UV light or electron beams comprise 1 part  $RZaZ1O2CCR1:CH2$  [ $R = C4-20$  perfluoroalkyl;  $Z = SO2NR2$ ,  $CONR2$ ,  $CH2CH2SO2NR2$ ,  $O-p-C6H4SO2NR2$ ,  $O-p-C6H4CONR2$ ,  $CH2CH2SCH2CH2CONR2$ ,  $CH2CH2NR2$ ,  $CH2CHMeNR2$ ,  $(CH2)3NR2$ ;  $R1 = H$ ,  $Me$ ,  $halo$ ;  $R2 = H$ ,  $C1-12$  alkyl, ether group-contg. alkyl;  $a = 0, 1$ ;  $Z1 = (CH2)n$ ;  $n = 2-4$ ], 4-10,000 parts hydrocarbyl acrylates, and 0.005-5% (per total compn.) oil-sol. F-contg. surfactants, giving films with good hardness and corrosion resistance. Thus, a mixt. of  $C8F17SO2NEtCH2CH2O2CCH:CH2$  (I) 0.050,  $N,N',N''$ -tris(2-hydroxyethyl)isocyanurate triacrylate 96.945, 3:7  $C8F17SO2NPrCH2CH2O2CCH:CH2-H2C:CMeco2(CH2)15CHMe2$  copolymer (mol. wt. 4000) 0.005, and benzophenone 3.000 parts was coated on steel, dried, and cured in UV light to give a film with surface hardness  $>6H$ , contact angle  $72^\circ$ , and good corrosion resistance, vs. 3H,  $42^\circ$ , and poor, resp., without I.

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